

CLAIMS

What is claimed are:

1. A keypad apparatus in a telephone in which a plurality of push buttons are arranged in rows and columns in a grid shape, comprising:

each of said buttons are freely pushed right and left, two switches for connecting/disconnecting an electrical flow are installed at the right and left of said each of the push buttons,

wherein if the lefts of said push buttons are pushed left switches are connected, if the rights of said push buttons are pushed right switches are connected and if the middles of said push buttons are pushed both the right and left switches are connected.

2. The keypad apparatus in a telephone according to claim 1, further comprising a shield wall having a given height between the push buttons arranged in rows and columns in order to discriminate the plurality of push buttons arranged in rows and columns.

3. The keypad apparatus in a telephone according to claim 1, wherein the right and left edges of the plurality of push buttons are formed higher by a given height than the middle portion of the plurality of push buttons.

4. The keypad apparatus in a telephone according to claim 1, wherein the middle portion of the plurality of push buttons are formed lower by a given depth than the right and left edges of the plurality of push buttons.

5. The keypad apparatus in a telephone according to claim 1, wherein the switch is formed using a membrane tactile method.

6. The keypad apparatus in a telephone according to claim 5, wherein two projections are formed at the right and left sides overlying the plurality of push buttons, so that

the left projection corresponds to the left switch and the right projection corresponds to the right switch, and

wherein when the left buttons of the plurality of the push buttons are pushed, the right and left projections push the upper side of the right and left switches while the right and left sides of the plurality of the push buttons are get folded.

7. The keypad apparatus in a telephone according to claim 1, wherein the keypad apparatus is constructed to input all the alphabet letter, numbers and special keys, by matching two alphabet letters for every two switches in each of the plurality of push buttons and matching one of the alphabet letters when the two switches are pushed at the same time, depending on a predetermined method.

8. The keypad apparatus in a telephone according to claim 7, wherein said switches match the letters by discriminating the case it is pushed for a longer time than a given time and the case it is pushed for a shorter time than a given time, respectively.

9. The keypad apparatus in a telephone according to claim 8, wherein the buttons for matching the letters by discriminating the case it is pushed for a longer time than a given time and the case it is pushed for a shorter time than a given time, respectively has a box hoop or a circular hoop on their surfaces in order to discriminate other buttons.

10. A keypad apparatus in a telephone in which a plurality of push buttons are arranged in rows and columns in a grid shape, comprising:

a switch input means wherein two push switches are consisted of for every one of the plurality of push buttons;

a switch detecting means for detecting the connecting state in each of switch contacts to determine whether any of the switches is connected or not;

a controller means for converting the switch input state determined at the switch detecting means into a predetermined format data format; and

a display means for displaying the contents of the input data by means of the controller means,

wherein each of the push buttons are freely pushed right and left, two switches for connecting/disconnecting an electrical flow are installed at the right and left of each of the push buttons,

wherein if the lefts of said push buttons are pushed left switches are connected, if the rights of said push buttons are pushed right switches are connected and if the middles of said push buttons are pushed both the right and left switches are connected.

11. The keypad apparatus in a telephone according to claim 10, further comprising a buzzer for generating a given sound depending on a predetermined rule according to the contents of data transmitted from the switch detecting means.

12. The keypad apparatus in a telephone according to claim 10, further comprising a lamp for lighting or un-lighting depending on a predetermined rule according to the contents of data transmitted from the switch detecting means.

13. The keypad apparatus in a telephone according to claim 10, wherein said switch detecting means disregards detection of other switches except for its opposite switch existing at the same button if a switch firstly connected after all of the switches are open is detected, and also accepts only the case the contact of the switch connected firstly connected is open or the case the contact of the opposite switch at the same button, as a continuous input.

14. The keypad apparatus in a telephone according to claim 10, further comprising a shield wall having a given height between the push buttons arranged in rows and columns in order to discriminate the plurality of push buttons arranged in rows and columns.

15. The keypad apparatus in a telephone according to claim 10, wherein the right and left edges of the plurality of push buttons are formed higher by a given height than the middle portion of the plurality of push buttons.

16. The keypad apparatus in a telephone according to claim 10, wherein the middle portion of the plurality of push buttons are formed lower by a given depth than the right and left edges of the plurality of push buttons.

17. The keypad apparatus in a telephone according to claim 10, wherein the switch is formed using a membrane tactile method.

18. The keypad apparatus in a telephone according to claim 17, wherein two projections are formed at the right and left sides overlying the plurality of push buttons, so that the left projection corresponds to the left switch and the right projection corresponds to the right switch, and

wherein when the left buttons of the plurality of the push buttons are pushed, the right and left projections push the upper side of the right and left switches while the right and left sides of the plurality of the push buttons are get folded.

19. The keypad apparatus in a telephone according to claim 10, wherein the keypad apparatus is constructed to input all the alphabet letter, numbers and special keys, by matching two alphabet letters for every two switches in each of the plurality of push buttons and matching one of the alphabet letters when the two switches are pushed at the same time, depending on a predetermined method.

20. The keypad apparatus in a telephone according to claim 19, wherein said switches match the letters by discriminating the case it is pushed for a longer time than a given time and the case it is pushed for a shorter time than a given time, respectively.